Serial No.: 10/722,747

Page 2 of 13

Claim Amendments

This listing of claims will replace all prior versions, and listings, of claims in the

application:

1. (currently amended) A network interface, comprising:

a direct memory access unit; and

circuitry to:

receive and transmit network data;

maintain a set of statistics metering operation of the network interface, the

set of statistics including at least one selected from the group of: (1) a number of bytes

received, and (2) a number of packets received;

receive data specifying a time interval a periodic time value to perform [[a

]] periodic direct memory access transfers transfer of the maintained set of statistics to a

host processor memory; and

periodically initiate a direct memory access transfer of the set of statistics

to the host processor memory in accordance with the received data specifying the time

interval at a periodicity of the periodic time value.

2. (previously presented) The network interface of claim 1, wherein the set of

statistics comprises each of the following: a number of packets received by the

interface, a number of bytes received by the interface, a number of packets transmitted

by the interface, and a number of bytes transmitted by the interface.

Serial No.: 10/722,747

Page 3 of 13

3. (currently amended) The network interface of claim 2, wherein the circuitry

comprises circuitry to include a timestamp with the direct memory access transfer of the

set of statistics, the timestamp being a time when values of the set of statistics

transferred by direct memory access were set by the network interface indicating a time

at which the set of statistics were captured.

4. (currently amended) The network interface of claim 2, wherein the circuitry

comprises circuitry to include a sequence count with the direct memory access transfers

transfer of the at least one statistic, the sequence count sequentially numbering

successively DMA-ed sets of the statistics.

5. (previously presented) The network interface of claim 1, wherein the set of

statistics comprises multiple RMON (Remote Monitoring) statistics.

6. (previously presented) The network interface of claim 1, wherein the circuitry

comprises circuitry to initiate direct memory access transfer of received network data.

7. (original) The network interface of claim 1, wherein the network interface

comprises a framer.

8. (original) The network interface of claim 7, wherein the network interface

comprises a Media Access Controller (MAC).

Serial No.: 10/722,747

Page 4 of 13

9. (original) The network interface of claim 1, wherein the network interface

comprises a PHY.

10. (currently amended) The network interface of claim 1, further comprising

circuitry to configure the circuitry to initiate the direct memory access transfers transfer.

11. (cancelled)

12. (original) The network interface of claim 10, wherein the circuitry to configure

comprises at least one register.

13. (original) The network interface of claim 10, wherein the circuitry to configure

comprises circuitry to determine configuration information from received packets.

14. (currently amended) The network interface of claim 13, wherein the circuitry

to determine configuration information from received packets comprises circuitry to

intercept packets received from the host traveling along a transmit path.

15. (original) The network interface of claim 1, wherein the direct memory

access unit comprises circuitry to notify a processor of completion of a transfer.

16. (currently amended) A method, comprising:

Serial No.: 10/722,747

Page 5 of 13

receiving data, at a network interface, specifying a time interval a time interval

value to perform a direct memory access transfer of a set of statistics metering

operation of the network interface from the network interface to a memory accessed by

at least one processor;

maintaining the set of statistics metering operation of the network interface at the

network interface; and

repeatedly transferring, by direct memory access, from the network interface to

the memory accessed by at least one processor, the set of statistics metering operation

of the network interface based on the data specifying the time interval, wherein the time

between initiating transferrings is equal to the time interval value.

17. (original) The method of claim 16, further comprising:

transferring packets from the network interface to the memory by direct memory

access.

18. (previously presented) The method of claim 16, wherein the comprise RMON

(Remote Monitoring) statistics.

19. (currently amended) The method of claim 16, further comprising transferring

at least one of a timestamp and a sequence number sequentially numbering

successively DMA-ed sets of the statistics with the statistics, the timestamp being a time

when values of the set of statistics transferred by direct memory access were set by the

network interface.

Serial No.: 10/722,747

Page 6 of 13

20. (original) The method of claim 16, wherein the network interface groups

digital bits into frames.

21. (original) The method of claim 16, further comprising configuring the transfer

of the at least one of the statistics.

22. (currently amended) The method of claim 21, wherein the configuring

comprises identifying at least one memory location to receive a transferred data set of

the statistics.

23. (currently amended) The method of claim 21,

further comprising receiving a packet at the network interface from the host; and

wherein the configuring comprises configuring based on data included in the

packet.

24. (original) The method of claim 16,

wherein the transferring into the memory comprises transferring into a cache

memory of at least one of the at least one processors.

25. (original) The method of claim 16,

further comprising signaling at least one of the at least one processors when the

transfer completes.

Serial No.: 10/722,747

Page 7 of 13

26. (currently amended) A program product, disposed on a computer readable

medium, comprising instructions for causing programmable circuitry of a network

interface to:

access data, at the network interface, specifying a time interval a time value to

perform a direct memory access transfer of a set of statistics metering operation of the

network interface from the network interface to a memory accessed by at least one

processor;

maintain the set of statistics metering operation of the network interface; and

initiate transfer, by direct memory access, from the network interface to the

memory accessed by at least one processor, the set of statistics metering operation of

the network interface based on the data specifying the time interval at a time equal to

the time value.

27. (original) The program of claim 26, further comprising instructions for

causing the programmable circuitry to:

transfer packets from the network interface to the memory by direct memory

access.

28. (previously presented) The program of claim 26, wherein the statistics

RMON (Remote Monitoring) statistics.

Serial No.: 10/722,747

Page 8 of 13

29. (currently amended) The program of claim 26, further comprising instructions

for causing the programmable circuitry to include in the direct memory access transfer

at least one of a timestamp and a sequence number with the at least one of the

statistics, the sequence number being a number representing a place of the set of

statistics within a series of statistic set transfers, the timestamp being a time when the

network interface captured the set of statistics for transfer.

30. (original) The program of claim 26, further comprising instructions for

causing the programmable circuitry to configure the transfer of the at least one of the

statistics.

31. (currently amended) The program of claim 30, wherein the instructions for

causing the programmable circuitry to configure comprise instructions for causing the

programmable circuitry to configure at least one memory location to receive a set of the

statistics transferred data.

32. (currently amended) The program of claim 30, further comprising instructions

for causing the programmable circuitry to configure the transfer-based on contents of

wherein the time value is included in a received packet received by the network

interface.

Serial No.: 10/722,747

Page 9 of 13

33. (original) The program of claim 26, further comprising instructions for

causing the programmable circuitry to signal at least one of the at least one processors

when the transfer completes.

34. (previously presented) A system, comprising:

at least one processor;

memory operationally coupled to the at least one processor;

a network interface, comprising:

a direct memory access unit configured to be operationally coupled to the

memory; and

circuitry to:

access data specifying a time interval a periodic time value to

perform [[a]] direct memory access transfers transfer of multiple RMON

(Remote Monitoring) statistics metering operation of the network interface to the

memory;

maintain the multiple RMON (Remote Monitoring) statistics

metering operation of the network interface; and

periodically initiate direct memory access transfer of multiple ones

of the RMON statistics metering operation of the network interface based on the data

specifying the time interval the periodicity equal to the periodic time value.

Serial No.: 10/722,747

Page 10 of 13

35. (currently amended) The network interface of claim 34, further comprising

circuitry to configure the circuitry to initiate the periodic direct memory access transfer.

36. (currently amended) The network interface of claim 34 35 wherein the

circuitry to configure comprises circuitry to determine configuration information from

packets received by the network interface.

37. (original) The network interface of claim 34, further comprising circuitry,

operationally coupled to the direct memory access unit, to initiate transfer of packets

received via the network connection.

38. (previously presented) The network interface of claim 34, wherein the

circuitry to initiate direct memory access transfer comprises circuitry to include at least

one of a timestamp and a sequence number sequentially numbering successively DMA-

ed sets of the statistics with the transfer of the multiple ones of the statistics.